

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10/028548"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 08:08
L2	6	("5992962" "5677714" "6183055").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 08:10
L3	4	("4748453" "4963882" "4965593" "4967203").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:14
L4	15	("5992962").URPN.	USPAT	OR	ON	2004/12/27 08:14
L5	8	("4999646" "5209878" "5790150" "5992962" "6213586" "6238037" "6318832" "6561609").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:16
L6	16	("4900130" "5164742" "5183798" "5329297" "5555006" "5602572" "5724086" "5808655" "5818498" "5935758" "5992962" "6001530" "6067405" "6109454" "6171766" "6179407").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:20
L7	0	("6623894").URPN.	USPAT	OR	ON	2004/12/27 08:21
L8	17	("4900130" "5164742" "5183798" "5329297" "5555006" "5602572" "5724086" "5808655" "5818498" "5935758" "5992962" "6001530" "6052140" "6067405" "6109454" "6171766" "6179407").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:23
L9	0	("6597388").URPN.	USPAT	OR	ON	2004/12/27 08:23
L10	9	("4345262" "4459600" "4463359" "4558333" "4608577" "4723129" "4740796" "5394250" "5818474").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:24
L11	3	("6183055").URPN.	USPAT	OR	ON	2004/12/27 08:25

L12	11	("5041849" "5604520" "5677716" "5818474" "5883644" "5923349" "5969729" "6179407" "6183055" "6250739" "6310640").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:26
L13	2	("6543871").URPN.	USPAT	OR	ON	2004/12/27 08:28
L14	4867	print\$3 near2 mask\$3	USPAT	OR	ON	2004/12/27 08:28
L15	52474	logic\$2 near3 (set value)	USPAT	OR	ON	2004/12/27 08:29
L16	184716	triang\$4	USPAT	OR	ON	2004/12/27 08:29
L17	9	14 with 16	USPAT	OR	ON	2004/12/27 08:29
L18	7	("5111310" "5341228" "5477305" "5543941" "5677716" "6082849" "6157461").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:30
L19	0	("6788432").URPN.	USPAT	OR	ON	2004/12/27 08:31
L20	43	14 and 15	USPAT	OR	ON	2004/12/27 08:59
L21	7	14 and 15 and 16	USPAT	OR	ON	2004/12/27 08:32
L22	36	20 not 21	USPAT	OR	ON	2004/12/27 08:32
L23	18	("4313124" "4345262" "4459600" "4463359" "4558333" "4723129" "4740796" "5097343" "5367325" "5617122" "5943068" "6076916" "6144460" "6145950" "6175424" "6226100" "6331898" "6334665").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:34
L24	0	("6437883").URPN.	USPAT	OR	ON	2004/12/27 08:36
L25	305	14 and 16	USPAT	OR	ON	2004/12/27 08:37
L26	9982	spatial adj frequency	USPAT	OR	ON	2004/12/27 08:37
L27	22	25 and 26	USPAT	OR	ON	2004/12/27 08:52
L28	1	"6659580".pn.	USPAT	OR	ON	2004/12/27 08:52
L29	18	("4313124" "4345262" "4459600" "4463359" "4558333" "4608577" "4723129" "4740796" "4963882" "5124720" "5831642" "5847723" "5992962" "6089695" "6283572" "6302511" "6347855" "6398342").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/27 08:53
L30	0	("6659580").URPN.	USPAT	OR	ON	2004/12/27 08:54
L31	326	347/237.ccls.	USPAT	OR	ON	2004/12/27 08:59
L32	207	347/240.ccls.	USPAT	OR	ON	2004/12/27 08:59

L33	194	347/251.ccls.	USPAT	OR	ON	2004/12/27 09:00
L34	73	347/254.ccls.	USPAT	OR	ON	2004/12/27 09:00
L35	294	347/247.ccls.	USPAT	OR	ON	2004/12/27 09:00
L36	13	(31 32 33 34 35) and 14	USPAT	OR	ON	2004/12/27 09:02
L37	60	(31 32 33 34 35) and 15	USPAT	OR	ON	2004/12/27 09:00
L38	1	36 and 37	USPAT	OR	ON	2004/12/27 09:01
L41	7076	430/5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 09:02
L42	762	430/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 09:02
L43	368	(41 42) and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 09:02
L44	8	(41 42) and 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 09:03
L45	2	43 and 44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/27 09:02



US006597388B2

(12) **United States Patent**
Pierson

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(54) **LASER-INDUCED THERMAL IMAGING
WITH MASKING**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 35 days.

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Primary Examiner—Hai Pham

(74) Attorney, Agent, or Firm—Shumaker & Sieffert, PA

(21) Appl. No.: **09/886,446**

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(51) Int. Cl.⁷ **B41J 2/47**

(52) U.S. Cl. **347/240; 347/251**

(58) Field of Search **347/233, 234,
347/237, 240, 248, 251, 132, 145, 107**

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(57) **ABSTRACT**

The invention is directed to compensating for imaging
aberrations that result from repeated passes by an imaging
laser array. The techniques described herein reduce the
undesirable aberrations. In general, the techniques provide
for printing a first line of image data and a set of contiguous
lines as a function of the image data and a first mask. On a
subsequent pass, these lines are overlapped. The line that
overlaps the first line prints the image data again, but
masked. The lines that overlap the contiguous lines print the
image data normally.

30 Claims, 7 Drawing Sheets

